

Attorney's Docket No. 005852.P013

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

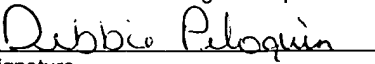
In Re Patent Application of:)	
)	
Hassibi, et al.)	Examiner: Not yet assigned
)	
Application No.: 10/627.332)	
)	Art Unit: Not yet assigned
Filed: July 24, 2003)	
)	
For: Methods and Apparatus for)	
Pathogen Detection, Identification)	
And/or Quantification)	
)	

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Enclosed is a copy of Information Disclosure Citation Form PTO-1449 or PTO/SB/08 together with copies of the documents cited on that form. It is respectfully requested that the cited documents be considered and that the enclosed copy of Information Disclosure Citation Form PTO-1449 or PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

FIRST CLASS CERTIFICATE OF MAILING	
I hereby certify that I am causing the above-referenced correspondence to be deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and that this paper or fee has been addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450	
Date of Deposit:	January 16, 2004
Name of Person Mailing Correspondence:	Debbie Peloquin
	January 16, 2004
Signature	Date

Docket No.: 005852.P013
Application No.: 10/627,332

Pursuant to 37 C.F.R. § 1.97, the submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made and is not to be construed as an admission that the information cited in this statement is material to patentability.

Pursuant to 37 C.F.R. § 1.97, this Information Disclosure Statement is being submitted under one of the following (as indicated by an "X" to the left of the appropriate paragraph):

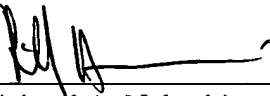
- ☒ 37 C.F.R. §1.97(b).
- ☐ 37 C.F.R. §1.97(c). If so, then enclosed with this Information Disclosure Statement is one of the following:
- ☐ A statement pursuant to 37 C.F.R. §1.97(e) or
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- ☐ 37 C.F.R. §1.97(d). If so, then enclosed with this Information Disclosure Statement are the following:
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If there are any additional charges, please charge Deposit Account No. 02-2666.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Dated: January 16, 2004



Richard A. Nakashima
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Substitute for Form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

JAN 20 2004

Complete if Known

Application Number	10/627,332
Filing Date	July 24, 2003
First Named Inventor:	Hassibi, et al.
Art Unit	N/A
Examiner Name	N/A
Attorney Docket Number	5852.P013

Sheet 1 of 10

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)				
		us-	5,534,424	07/09/1996	Uhlen et al.	
		us-	6,197,505	03/06/2001	Norberg et al.	
		us-	6,210,891	04/03/2001	Nyren et al.	
		us-	6,258,568	07/10/2001	Nyren	
		us-	6,274,320	08/14/2001	Rothberg et al.	
		us-	5,405,746	04/11/1995	Uhlen	
		us-	20010024790	09/27/2001	Kambara et al.	
		us-	20030049628	03/13/2003	Kambara et al.	
		us-	20030087272	05/08/2003	Kambara et al.	
		us-	4,971,903	11/20/1990	Hyman	
	Dependent	us-	60/302,909	07/03/2001	Arjang Hassibi	
		us-				
		us-				

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		WO 89/09283	05-10-1989	Hyman, Edward, David		
		WO 93/23564	11-25-1993	CEMUBIO-TEKNIK AB		
		WO 01/42496	06-14-2001	PYROSEQUENCING AB		
		WO 02/20836	03-14-2002	PYROSEQUENCING AB		
		WO 00/40750	07/13/2000	AMERSHAM PHARMACIA BIOTECH AB		
		WO 02/20837	03/14/2002	PYROSEQUENCING AB		

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS.
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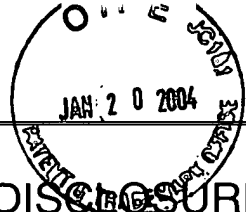
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Substitute Form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Application Number	10/627,332
		Filing Date	07/24/2003
		First Named Inventor:	Hassibi, et al.
		Art Unit	N/A
		Examiner Name	N/A
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Sheet	2	of	10
NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		Susan Chrysogelos and Jack Griffith, "Escherichia coli Single-Strand Binding Protein Organizes Single-Stranded DNA in Nucleosome-Like Units", Proc. Natl. Acad. Sci. USA, Vol. 79, Issue 19, [Part 1: Biological Sciences], Oct. 1, 1982, Pages 5803-5807.	
		Saleem A. Khan, "Plasmid Rolling-Circle Replication: Recent Developments", Molecular Microbiology (2000) 37(3), Pages 477-484.	
		Brenner, et al., "Gene Expression Analysis by Massively Parallel Signature Sequencing (MPSS) on Microbead Arrays", Nature Biotechnology, Vol. 18, 2000, Pages 630-634.	
		Huong L. Vu et al., "A Method for Quantification of Absolute Amounts of Nucleic Acids by (RT)-PCR and a New Mathematical Model for Data Analysis", Nucleic Acids Research, 2000, Vol. 28, No. 7.	
		Yao Xu, et al., "A Bioluminescence Resonance Energy Transfer (BRET) System: Application to Interacting Circadian Clock Proteins", Proc. Natl. Acad. Sci. USA, Vol. 96, pp. 151-156, January 1999.	
		Pal Nyren et al., "Enzymatic Method for Continuous Monitoring of Inorganic Pyrophosphate Synthesis", Analytical Biochemistry 151, 504-509 (1985).	
		Pal Nyren, "Enzymatic Method for Continuous Monitoring of DNA Polymerase Activity",	
		Malin Nygren et al., "Quantification Using Multiple PCR Competitors and Bioluminescence Detection".	
		Tanya Vener et al., "Use of Multiple Competitors for Quantification of Human Immunodeficiency Virus Type 1 RNA in Plasma", Journal of Clinical Microbiology, Vol. 36, 1998, Pages 1864-1870.	
		Afshin Ahmadian, et al., "Genotyping by Apyrase-Mediated Allele-Specific Extension", Nucleic Acids Research, 2001, Vol. 29, No. 24.	
		Hossein Fakhrai-Rad, et al., "Pyrosequencing: An Accurate Detection Platform for Single Nucleotide Polymorphisms", Human Mutation 19, Pages 479-485 (2002).	

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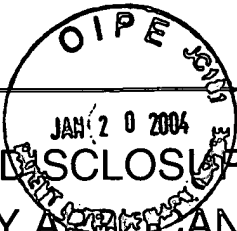
Substitute for Form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Complete if Known		
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			First Named Inventor:	Hassibi, et al.	
			Art Unit	N/A	
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Sheet	3	of	10	Attorney Docket Number	5852.P013

NON PATENT LITERATURE DOCUMENTS			
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		Tommy Nordstrom, et al., "Method Enabling Fast Partial Sequencing of cDNA Clones", Analytical Biochemistry 292, Pages 266-271 (2001)	
		Mostafa Ronaghi, "Pyrosequencing Sheds Light on DNA Sequencing", Genome Research 2001, 11:3-11.	
		Carlos A. Garcia, et al., "Mutation Detection by Pyrosequencing: Sequencing of Exons 5-8 of the p53 Tumor Suppressor Gene", Gene 253, (2000), Pages 249-257.	
		Samer Karamohamed, et al., "Production, Purification, and Luminometric Analysis of Recombinant Saccharomyces Cerevisiae MET3 Adenosine Triphosphate Sulfurylase Expressed in Escherichia Coli", Protein Expression and Purification 15, Pages 381-388 (1999).	
		Mostafa Ronaghi, et al., "Real-Time DNA Sequencing Using Detection of Pyrophosphate Release", Analytical Biochemistry 242, Pages 84-89 (1996).	
		Mostafa Ronaghi, et al., "Real-Time Pyrophosphate Detection for DNA Sequencing", Science Vol. 281, 1998. Pages 363-365.	
		Pal Nyren, et al., "Detection of Single-Base Changes Using a Bioluminometric Primer Extension Assay", Analytical Biochemistry 244, Pages 367-373 (1997).	
		Samer Karamohamed and Pal Nyren, "Real-Time Detection and Quantification of Adenosine Triphosphate Sulfurylase Activity by a Bioluminometric Approach", Analytical Biochemistry 271, Pages 81-85 (1999).	
		Samer Karamohamed, et al., "Real-Time Bioluminometric Method for Detection of Nucleoside Diphosphate Kinase Activity", BioTechniques Vol. 26, No. 4, Pages 728-734, (1999).	
		Ann Erlandsson, et al., "Quantification of Bordetella Pertussis in Clinical Samples by Colorimetric Detection of Competitive PCR Products", APMIS 106, Pages 1041-1048 (1998).	

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Application Number	10/627,332
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First Named Inventor:	Hassibi, et al.
Art Unit	N/A
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Sheet 4 of 10

NON PATENT LITERATURE DOCUMENTS

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		Guohua Zhou, et al., "Miniaturized Pyrosequencer for DNA Analysis with Capillaries to Deliver Deoxynucleotides", Electrophoresis 2001, Vol. 22, Pages 3497-3504.	
		Nader Pourmand, et al., "Multiplex Pyrosequencing", Nucleic Acids Research, 2002, Vol. 30, No. 7.	
		Solveig Eriksson, et al., "Cytochrome P450 Genotyping by Multiplexed Real-Time DNA Sequencing with Pyrosequencing Technology", ASSAY and Drug Development Technologies, Vol. 1, 2002, Pages 49-59.	
		Pal Nyren and Arne Lundin, et al., "Enzymatic Method for Continuous Monitoring of Inorganic Pyrophosphate Synthesis", Analytical Biochemistry, Vol. 151, Pages 504-509 (1985).	
		Pal Nyren, "Enzymatic Method for Continuous Monitoring of DNA Polymerase Activity", Analytical Biochemistry, Vol.167, Pages 235-238 (1987).	
		Baback Gharizadeh, et al., "Multiple-Primer DNA Sequencing Method", Electrophoresis 2003, Vol. 24, Pages 1145-1151.	
		Eissa Hanna, et al., "ATP Sulfurylase from the Hyperthermophilic Chemolithotroph Aquifex Aeolicus", Archives of Biochemistry and Biophysics, Vol. 406 (2002) Pages 275-288.	
		Jonas Eriksson, et al., "Method Enabling Firefly Luciferase-Based Bioluminometric Assays at Elevated Temperatures", Analytical Biochemistry, Vol. 314 (2003), Pages 158-161.	
		Vuokko Jansson and Kristian Jansson, "Enzymatic Chemiluminescence Assay for Inorganic Pyrophosphate", Analytical Biochemistry, Vol. 304, (2002), Pages 135-137.	
		Guo-hua Zhou, et al., "Quantitive Detection of Single Nucleotide Polymorphisms For a Pooled Sample By a Bioluminometric Assay Coupled with Modifier Primer Extension Reactions (BAMPER)", Nucleic Acids Research, 2001 Vol. 29. No.19.	

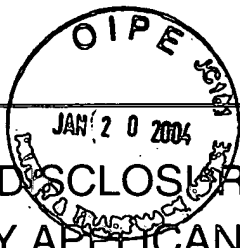
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Sheet	5	of	10	Attorney Docket Number	5852.P013
NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T ²
		Masao Kamahor, et al., "A New Single Nucleotide Polymorphisms Typing Method and Device by Bioluminometric Assay Coupled with a Photodiode Array", Meas. Sci. Technol: 13 (2002), Pages 1779-1785.			
		Pal Nyren, et al., "Inorganic Pyrophosphatase-Based Detection Systems", Analytical Biochemistry, Vol. 220, Pages 46-52, (1994).			
		Helle Unnerstad, et al., "Pyrosequencing as a Method for Grouping of Listeria Monocytogenes Strains on the Basis of Single-Nucleotide Polymorphisms in the inlB Gene", Applied and Environmental Microbiology, 2001, Pages 5339-5342.			
		Malin Nygren, et al., "Polymorphism in the Pertussis Toxin Promoter Region Affecting the DNA-Based Diagnosis of Bordetella Infection", Journal of Clinical Microbiology, 2000, Pages 55-60, Vol. 38.			
		Malin Nygren, et al., "Quantification of HIV-1 Using Multiple Quantitative Polymerase Chain Reaction Standards and Bioluminometric Detection", Analytical Biochemistry, Vol. 288, Pages 28-38, (2001).			
		Mostafa Ronaghi, et al., "Pyrosequencing for Microbial Typing", Journal of Chromatography B, Vol. 782, (2002), Pages 67-72.			
		Jon Jonasson, et al., "Classification, Identification and Subtyping of Bacteria Based on Pyrosequencing and Signature Matching of 16SrDNA Fragments", APMIS, Vol. 110: Pages 263-272, (2002).			
		Hong Zhang, et al., "Crystal Structures of E. coli Nicotinate Mononucleotide Adenyltransferase and Its Complex with Deamido-NAD", Structure, Vol. 10, Pages 69-79, 2002.			
		Ryan A. Mehl, et al., "Identification of the Escherichia coli Nicotinic Acid Mononucleotide Adenyltransferase Gene", Journal of Bacteriology, Aug. 2000, Pages 4372-4374, Vol. 182.			

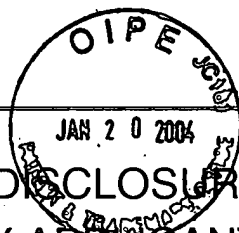
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		Erik Werner, et al., "Crystal Structure of Human Nicotinamide Mononucleotide Adenyltransferase in Complex with NMN", FEBS Letters, Vol. 516, (2002) Pages 239-244.			
		Andrea M. Olland, et al., "Identification, Characterization, and Crystal Structure of Bacillus subtilis Nicotinic Acid Mononucleotide Adenyltransferase", The Journal of Biological Chemistry, Vol. 277, No. 5, Pages 3698-3707, (2002).			
		Masao Kamahori, et al., "A New Single Nucleotide Polymorphisms Typing Method and Device by Bioluminometric Assay Coupled with a Photodiode Array", Meas. Sci. Technol., Vol. 13, (2002), Pages 1779-1785.			
		Grant Application, "Bioluminescence Regenerative Cycle (BRC) for Ultra-Sensitive Pathogen Detection", Xagros Technologies, Inc..			
		Ito, et al., "Bioluminescent Enzyme Immunoassay for Mouse Interleukin-6 Using Acetate Kinase", Analytical Sciences, 1999, Vol. 15, Pages 91-93.			

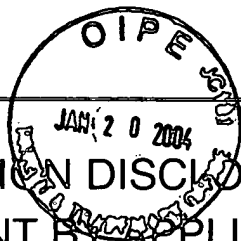
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		US-	6,363,783	4/2/2002	Turner et al.	
		US-	6,355,420	3/12/2002	Chan	
		US-	6,346,381	02/12/2002	Cohen et al.	
		US-	6,335,165	01/01/2002	Navot et al.	
		US-	6,293,273	09/25/2001	Byrne et al.	
		US-	6,291,182	09/18/2001	Schork et al.	
		US-	6,280,738	08/28/2001	Tai et al.	
		US-	6,268,517	07/31/2001	Filler et al.	
		US-	6,265,546	07/24/2001	Cohen et al.	
		US-	6,258,568	07/10/2001	Nyren	
		US-	6,225,061	05/01/2001	Becker et al.	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ^a
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Complete if Known

Application Number	10/627,332
Filing Date	07/24/2003
First Named Inventor:	Hassibi, et al.
Art Unit	N/A
Examiner Name	N/A
Attorney Docket Number	5852.P013

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		Country Code ³	Number ⁴ Kind Code ⁵ (if known)				

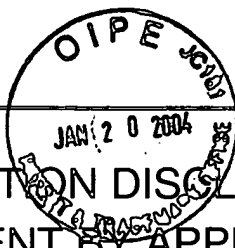
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